

R E M A R K S

Claims 1 and 2 have been amended. New Claims 3-6 have been added. Claims 1-6 are now pending in the application.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned **"Version with Markings to Show Changes Made."**

In view of the foregoing amendments and remarks, allowance of all claims in the application is respectfully requested.

Respectfully submitted,



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**VERSION WITH MARKINGS TO SHOW CHANGES MADE****In the claims:**

Claims 1 and 2 have been amended as follows:

1. (Amended) A polymer membrane for the separation of components of natural gas, that comprises an asymmetric hollow fiber of polyethersulphone for the purposes of pervaporation, treated with mixtures of liquids comprising [(C<sub>2</sub>H<sub>5</sub>OH and X)], in which X [=] is toluene, acetone, or dimethylformamide, with a content of X equal to [=] 7 - 12% [(] by volume [])] in the mixture, subsequently treated with a solution at 2.5% [(] by volume [])] of urethanosiloxane in isopropyl alcohol.

2. (Amended) A polymer membrane [,] according to claim 1, characterised in that a hollow fibre membrane of polyethersulphone is used, modified with a gaseous mixture comprising F<sub>2</sub> and HF [(F<sub>2</sub> - HF) : inert gas)] with content of [(F<sub>2</sub> - HF)] F<sub>2</sub> and HF in the range of 0-90% [(] by volume [])], and concentration of HF in fluorine of 4-6% [(] by volume [])].

New Claims 3-6 have been added.